16-Port USB 3.0 Metal Hub with Surge Protection and DIN RAIL Mounting Kit – Installation Guide

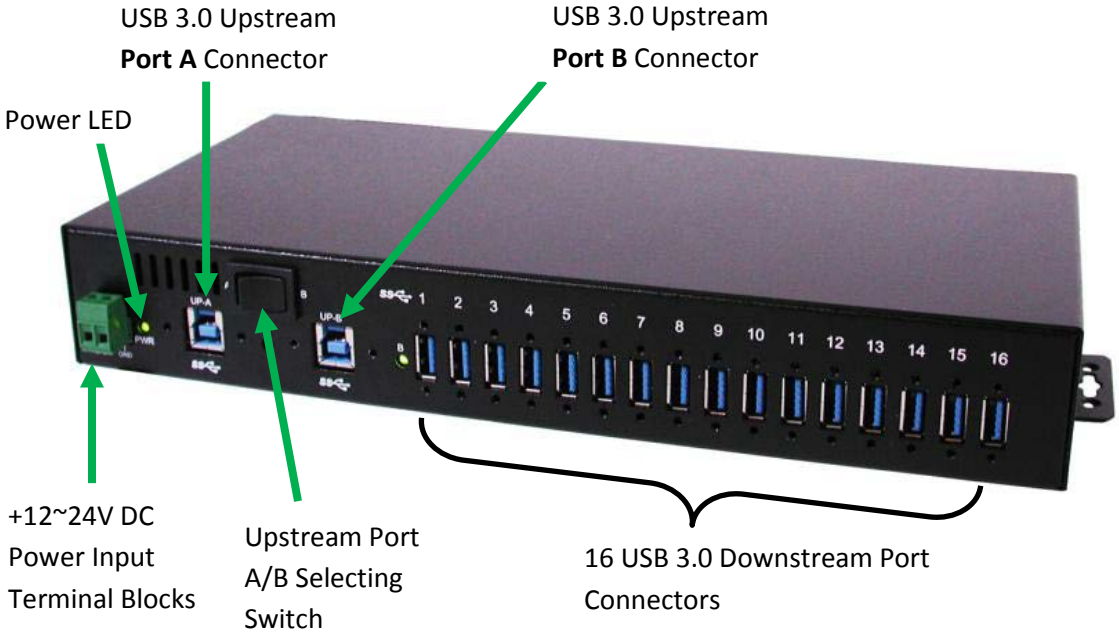
1. Introduction: **USB3-16U1**

Thank you for purchasing this Super-Speed 16-port USB 3.0 hub. It provides an ideal solution to expand 16 USB 3.0 ports from 2 selectable USB 3.0 host ports. It provides a wide range self power source (+12~24VDC from 2-pin Terminal Blocks) to supply enough power on USB 3.0 buses.

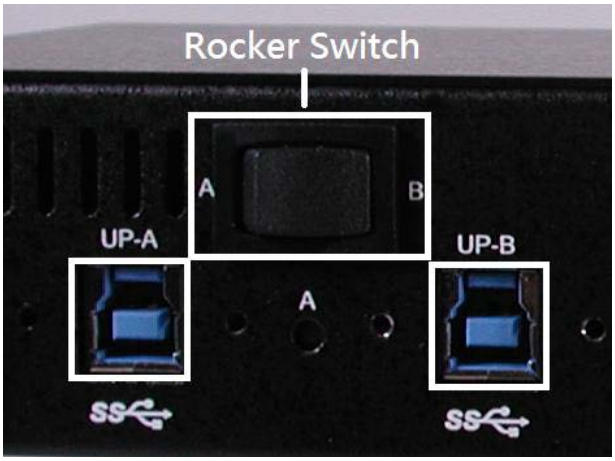
FEATURES:

- Compliant with USB Specification Revision 3.0
- Rigid and Wall-mountable Metal Case
- Provides 2 Selectable Upstream and 16 Downstream USB 3.0 Facing Ports
- Supports 5Gbps (Super-Speed), 480Mbps (High-Speed), 12Mbps (Full-Speed), and 1.5Mbps (Low-Speed) speed
- Supports 350-Watt Surge Protection for each Port
- Multi Transaction Translators (TT) per Hub
- Supports USB Battery Charging: CDP and DCP modes
- Supports USB Screw-Lock Cable Mechanism
- Supports DIN RAIL Mounting Kit

2. Connector Layout

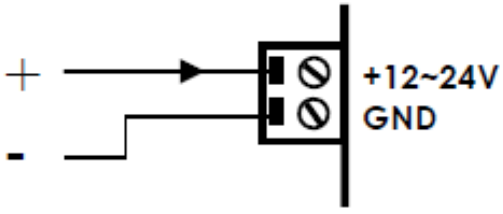


- **USB 3.0 Upstream Port Connectors:** There are 2 Type-B upstream connectors that selectable by the rocker switch. Either port A or port B (but not simultaneously) is used to control the downstream ports. Both connectors can be connected to a host or another USB 3.0 hub. They support both normal and screw-lock type USB cables.



- **USB 3.0 Downstream Port Connectors:** There are 16 Type-A connectors for USB 3.0, USB 2.0 or USB 1.1 devices. They support both normal and screw-lock type USB cables.
- **Self Power Input Connector:** This 2-pin (one pin for positive voltage and the other pin is GND) terminal block connector is used to connect strong power to self-power the hub; the voltage can be in the range from +12V to 24V DC.

WARNING!!
Please make sure the polarity of the input power should be correctly matched with the terminal block pins to function properly.

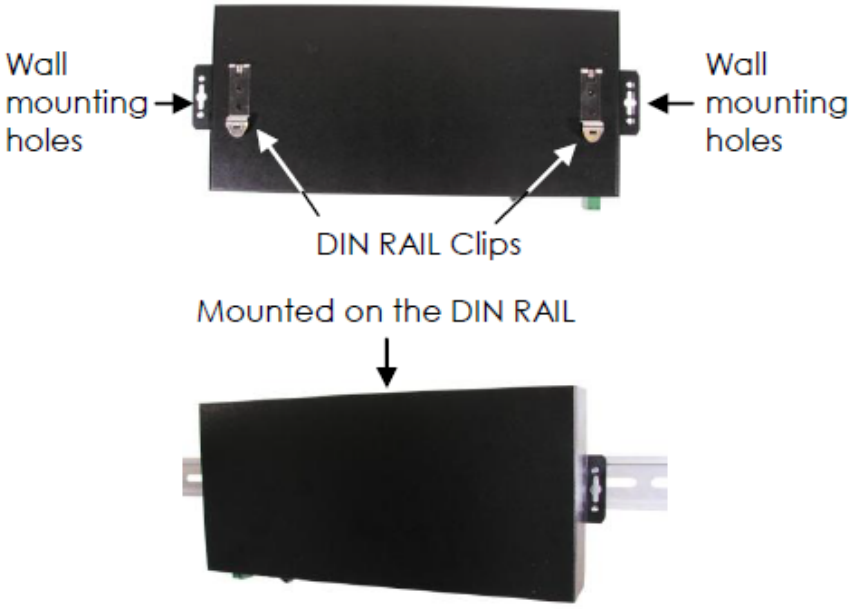


3. Hardware Installation

1. **Use static electricity discharge precautions.** Remove possible static discharge potential from any objects that the hub may come in contact with before installation. This can be accomplished by touching a bare metal chassis rail after you have turned off the power.
2. **Apply DC power (range from +12V to 24V) to the 2-pin Terminal Block Connector.** The hub was self-powered by this connector.
3. **Connecting USB Host cables:** The host cable could be either a standard A-to-B USB3.0 cable or an optional A-to-B USB 3.0 screw-lock cable. Please connect the type-A end connector of the cable to your PC's host USB 3.0 port, then insert the type-B end connector to this hub. Since the USB hub is plug-and-play, you don't have to turn off your host computer when installing the hub. This hub provides 2 upstream type-B connectors, if you only need

one, connect either of them and leave the other unconnected. However, please note the rocker switch should be set at correct position in this case.

4. **Connect the USB devices to the downstream ports of this hub.**
5. **Mount your hub on the wall or DIN RAIL if required.**



4. Checking the Hub Installation

To check the USB hub installation in Windows device manager, please follow the following steps:

1. Click **Start**
2. Click **Control Panel**
3. Click **System**
4. Click **Device Manager** button
5. Double click **Universal Serial Bus Controller**
6. Double click **Generic USB Hub**, the message will show that this device is working properly.

5. Environmental Specifications

Operating Temperature:	0 to 55°C (32 to 131°F)
Operating Humidity:	5 to 95% RH
Dimensions (LxWxH):	12.15”(L) x 5.12” (W) x 1.74” (H) (30.85 x 13.02 x 4.42 cm)